

PATENT APPLICATION

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Takamitsu HIGUCHI et al.

Application No.: 09/963,457

Filed: September 27, 2001

Docket No.: 110715

For: SURFACE ACOUSTIC WAVE ELEMENT, FREQUENT FILTER, FREQUENCY
OSCILLATOR, ELECTRONIC CIRCUIT AND ELECTRONIC MACHINE

PRELIMINARY AMENDMENT

Director of the U.S. Patent and Trademark Office
Washington, D. C. 20231

Sir:

Prior to initial examination, please amend the above-identified application as follows:

IN THE CLAIMS:

Please replace claims 8, 9 and 11 as follows:

8. (Amended) A frequency filter including: a first electrode formed on the piezoelectric layer equipped with any one of the surface acoustic wave elements of claim 1; and a second electrode which is formed on said piezoelectric layer and which converts to an electrical signal by resonating to a specific frequency or a frequency of a specific band of a surface acoustic wave generated in said piezoelectric layer by an electrical signal applied to said first electrode.

9. (Amended) A frequency oscillator including: an electrical signal application electrode which is formed on the piezoelectric layer equipped with any one of the surface wave acoustic elements of claim 1 and which generates a surface acoustic wave in said piezoelectric layer according to an applied electrical signal; and a resonance electrode which is formed on said piezoelectric layer and which resonates a specific frequency component or a frequency component of a specific band of the surface acoustic wave generated by said electrical signal application electrode.

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11. (Amended) An electronic apparatus including at least one of the frequency filter according to claim 8.

Please add new claims 12 and 13 as follows:

--12. An electronic apparatus including at least one of the frequency oscillator according to claim 9.--

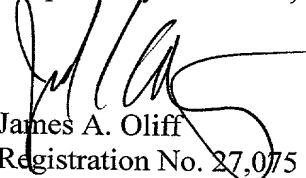
--13. An electronic apparatus including at least one of the electronic circuit according to claim 10.--

REMARKS

Claims 1 - 13 are pending. By this Preliminary Amendment, claims 8, 9 and 11 are amended to remove multiple dependencies. Claims 12 and 13 are added to compensate for the material deleted from claim 11. Prompt and favorable examination on the merits is respectfully requested.

The attached Appendix includes marked-up copies of each rewritten claim (37 C.F.R. 1.121(c)(1)(ii)).

Respectfully submitted,


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APPENDIX

Changes to Claims:

The following are marked-up versions of the amended claims:

8. (Amended) A frequency filter including: a first electrode formed on the piezoelectric layer equipped with any one of the surface acoustic wave elements of ~~claims 1 through 7~~ claim 1; and a second electrode which is formed on said piezoelectric layer and which converts to an electrical signal by resonating to a specific frequency or a frequency of a specific band of a surface acoustic wave generated in said piezoelectric layer by an electrical signal applied to said first electrode.

9. (Amended) A frequency oscillator including: an electrical signal application electrode which is formed on the piezoelectric layer equipped with any one of the surface wave acoustic elements of ~~claims 1 through 7~~ claim 1 and which generates a surface acoustic wave in said piezoelectric layer according to an applied electrical signal; and a resonance electrode which is formed on said piezoelectric layer and which resonates a specific frequency component or a frequency component of a specific band of the surface acoustic wave generated by said electrical signal application electrode.

11. (Amended) An electronic apparatus including at least one of the frequency filter according to claim 8, ~~the frequency oscillator according to claim 9, and the electronic circuit according to claim 10.~~

Claims 12 and 13 are added.